

WEEK-7 REACT

9.REACTJS-HOL

Create a React Application named “cricketapp” with the following components:

1. ListofPlayers
2. IndianPlayers

IndianPlayers.js

```
import React from 'react';
```

```
const IndianPlayers = () => {  
  const T20players = ['Rohit', 'Virat', 'Gill', 'Surya'];  
  const RanjiTrophy = ['Pujara', 'Rahane', 'Iyer'];  
  
  // Merge arrays using spread operator  
  const allPlayers = [...T20players, ...RanjiTrophy];  
  
  // Destructuring to split odd and even team  
  const oddTeam = allPlayers.filter((_, index) => index % 2 === 0);  
  const evenTeam = allPlayers.filter((_, index) => index % 2 !== 0);  
  
  return (  
    <div>  
      <h2>Odd Team Players:</h2>  
      <ul>  
        {oddTeam.map((player, index) => <li key={index}>{player}</li>)}  
      </ul>  
  
      <h2>Even Team Players:</h2>  
      <ul>  
        {evenTeam.map((player, index) => <li key={index}>{player}</li>)}  
      </ul>  
    </div>  
  );
```

```
};  
export default IndianPlayers;
```

ListofPlayers.js

```
import React from 'react';  
const ListofPlayers = () => {  
  const players = [  
    { name: 'Virat', score: 95 },  
    { name: 'Rohit', score: 88 },  
    { name: 'Dhoni', score: 65 },  
    { name: 'Raina', score: 45 },  
    { name: 'Rahul', score: 78 },  
    { name: 'Bumrah', score: 50 },  
    { name: 'Shami', score: 72 },  
    { name: 'Ashwin', score: 33 },  
    { name: 'Jadeja', score: 66 },  
    { name: 'Gill', score: 82 },  
    { name: 'Surya', score: 90 }  
  ];  
  const highScorers = players.filter(player => player.score >= 70);  
  return (  
    <div>  
      <h2>Players with score >= 70</h2>  
      <ul>  
        {highScorers.map((player, index) => (  
          <li key={index}>{player.name}: {player.score}</li>  
        ))}  
      </ul>  
    </div>  
  );  
};
```

```
export default ListofPlayers;
```

App.js

```
import React from 'react';
import './App.css';
import ListofPlayers from './ListofPlayers';
import IndianPlayers from './IndianPlayers';

function App() {
  const flag = true; // change to false to switch component

  return (
    <div className="App">
      <h1>Cricket App</h1>
      {flag ? <ListofPlayers /> : <IndianPlayers />}
    </div>
  );
}
export default App;
```

App.css

```
.App {
  text-align: center;
}

.App-logo {
  height: 40vmin;
  pointer-events: none;
}

@media (prefers-reduced-motion: no-preference) {
  .App-logo {
    animation: App-logo-spin infinite 20s linear;
```

```
}  
}
```

```
.App-header {  
  background-color: #282c34;  
  min-height: 100vh;  
  display: flex;  
  flex-direction: column;  
  align-items: center;  
  justify-content: center;  
  font-size: calc(10px + 2vmin);  
  color: white;  
}
```

```
.App-link {  
  color: #61dafb;  
}
```

```
@keyframes App-logo-spin {  
  from {  
    transform: rotate(0deg);  
  }  
  to {  
    transform: rotate(360deg);  
  }  
}
```

```
.App {  
  font-family: Arial, sans-serif;  
  padding: 20px;  
}  
h1 {  
  color: #0b3d91;  
}
```

```

h2 {
  margin-top: 30px;
  color: #1e1e1e;
}

ul {
  list-style-type: disc;
  margin-left: 20px;
}

export default App;

```

OUTPUT:

```

Compiled successfully!

You can now view cricketapp in the browser.

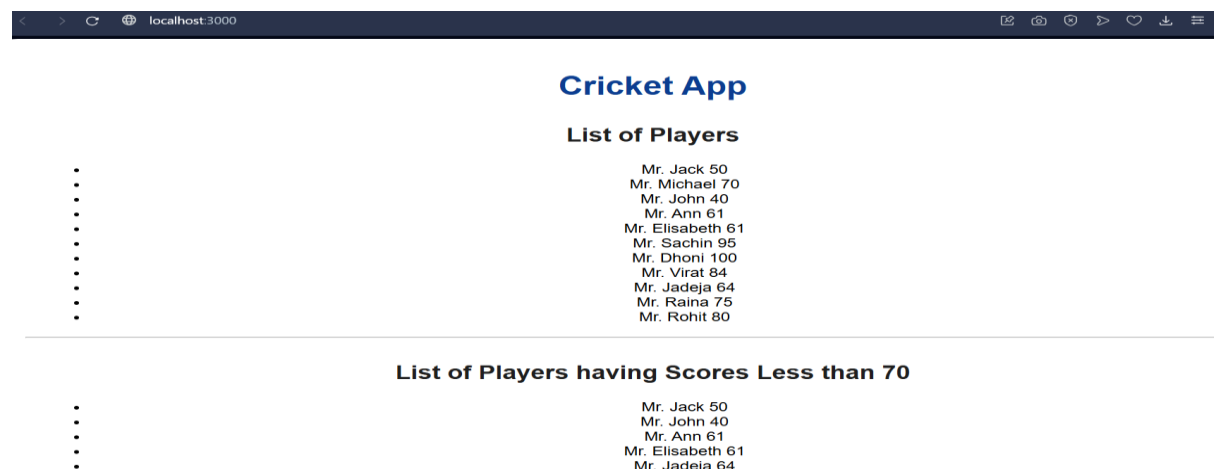
  Local:            http://localhost:3000
  On Your Network:  http://192.168.137.3:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully

```

When Flag=true



When flag=false

Cricket App

Odd Players

- First : Sachin1
- Third : Virat3
- Fifth : Yuvaraj5

Even Players

- Second : Dhoni2
- Fourth : Rohit4
- Sixth : Raina6

List of Indian Players Merged:

- Mr. First Player
- Mr. Second Player
- Mr. Third Player
- Mr. Fourth Player
- Mr. Fifth Player
- Mr. Sixth Player

10.REACTJS-HOL

Create a React Application named "officespacerentalapp" which uses React JSX to create elements, attributes and renders DOM to display the page.

App.js

```
import './App.css';
```

```
function App() {
```

```
  // Single office object
```

```
  const office = {
```

```
    name: 'Tech Park Office',
```

```
    rent: 55000,
```

```
    address: '123 Tech Street, Bangalore',
```

```
    image: 'https://via.placeholder.com/400x200?text=Office+Image'
```

```
  };
```

```
  // List of multiple office spaces
```

```
  const officeList = [
```

```
    {
```

```
      name: 'Downtown Workspace',
```

```
      rent: 45000,
```

```
      address: '456 City Center, Hyderabad'
```

```
    },
```

```
{
  name: 'Startup Hub',
  rent: 65000,
  address: '789 Innovation Road, Pune'
},
{
  name: 'Corporate Tower',
  rent: 70000,
  address: '101 Corporate Blvd, Mumbai'
}
];
```

```
return (
  <div className="App">
    <h1>Office Space Rental App</h1>

    {/* Single office data */}
    <img
      src={office.image}
      alt="Office"
      style={{ width: '400px', height: '200px' }}
    />
    <h2>{office.name}</h2>
    <p style={{ color: office.rent < 60000 ? 'red' : 'green' }}>
      Rent: ₹{office.rent}
    </p>
    <p>Address: {office.address}</p>

    <hr />

    {/* List of multiple office items */}
    <h2>Available Office Spaces</h2>
```

```

    {officeList.map((item, index) => (
      <div
        key={index}
        style={{ borderBottom: '1px solid #ccc', padding: '10px' }}
      >
        <h3>{item.name}</h3>
        <p style={{ color: item.rent < 60000 ? 'red' : 'green' }}>
          Rent: ₹{item.rent}
        </p>
        <p>Address: {item.address}</p>
      </div>
    ))}
  </div>
);
}
export default App;

```

App.css

```

.App {
  text-align: left;
  padding: 20px;
  font-family: Arial, sans-serif;
  max-width: 600px;
  margin: auto;
}
h1 {
  color: #0b3d91;
}
img {
  border-radius: 8px;
  margin-bottom: 10px;
}

```



```
.App-logo {  
  height: 40vmin;  
  pointer-events: none;  
}  
  
@media (prefers-reduced-motion: no-preference) {  
  .App-logo {  
    animation: App-logo-spin infinite 20s linear;  
  }  
}  
  
.App-header {  
  background-color: #282c34;  
  min-height: 100vh;  
  display: flex;  
  flex-direction: column;  
  align-items: center;  
  justify-content: center;  
  font-size: calc(10px + 2vmin);  
  color: white;  
}  
  
.App-link {  
  color: #61dafb;  
}  
  
@keyframes App-logo-spin {  
  from {  
    transform: rotate(0deg);  
  }  
  to {  
    transform: rotate(360deg);  
  }  
}
```

OUTPUT:

```
Windows PowerShell

Compiled successfully!

You can now view officespacerentalapp in the browser.

Local:      http://localhost:3000
On Your Network:  http://192.168.1.36:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```

localhost:3000

Office Space Rental App

Office

Tech Park Office

Rent: ₹55000

Address: 123 Tech Street, Bangalore

Available Office Spaces

Downtown Workspace

Rent: ₹45000

Address: 456 City Center, Hyderabad

Startup Hub

Rent: ₹65000

Available Office Spaces

Downtown Workspace

Rent: ₹45000

Address: 456 City Center, Hyderabad

Startup Hub

Rent: ₹65000

Address: 789 Innovation Road, Pune

Corporate Tower

Rent: ₹70000

Address: 101 Corporate Blvd, Mumbai

11.REACTJS-HOL

Create a React Application “eventexamplesapp” to handle various events of the form elements in HTML.

App.js

```
import React, { useState } from 'react';
import './App.css';
import CurrencyConvertor from './CurrencyConvertor';

function App() {
  const [count, setCount] = useState(0);

  // Increment handler
  const handleIncrement = () => {
    setCount(prev => prev + 1);
    sayHello();
  };

  // Decrement handler
  const handleDecrement = () => {
    setCount(prev => prev - 1);
  };

  // Say hello function
  const sayHello = () => {
    alert('Hello! This is a static message.');
```

```
  };

  // Say Welcome handler
  const sayWelcome = (message) => {
    alert(message);
  };

  // Synthetic event handler
  const onPressHandler = () => {
    alert('I was clicked');
  };

  return (
    <div className="App">
      <h1>Event Examples App</h1>

      <h2>Counter: {count}</h2>
      <button onClick={handleIncrement}>Increment</button>
      <button onClick={handleDecrement}>Decrement</button>

      <hr />
```

```

    <button onClick={() => sayWelcome('Welcome!')}>Say Welcome</button>

    <hr />

    <button onClick={onPressHandler}>Synthetic Event Button</button>

    <hr />

    <CurrencyConvertor />
  </div>
);
}

export default App;

```

CurrencyConvertor.js

```

import React, { useState } from 'react';

function CurrencyConvertor() {
  const [inr, setInr] = useState("");
  const [euro, setEuro] = useState("");

  const handleSubmit = () => {
    const rate = 0.011; // ₹1 = €0.011
    const converted = parseFloat(inr) * rate;
    setEuro(converted.toFixed(2));
  };

  return (
    <div>
      <h2>Currency Converter</h2>
      <input
        type="number"
        value={inr}
        placeholder="Enter INR"
        onChange={(e) => setInr(e.target.value)}
      />
      <button onClick={handleSubmit}>Convert</button>
      {euro && (
        <p>Converted Value: €{euro}</p>
      )}
    </div>
  );
}

export default CurrencyConvertor;

```

App.css

```

.App {
  text-align: center;
  font-family: Arial, sans-serif;
  padding: 20px;
}

```

```

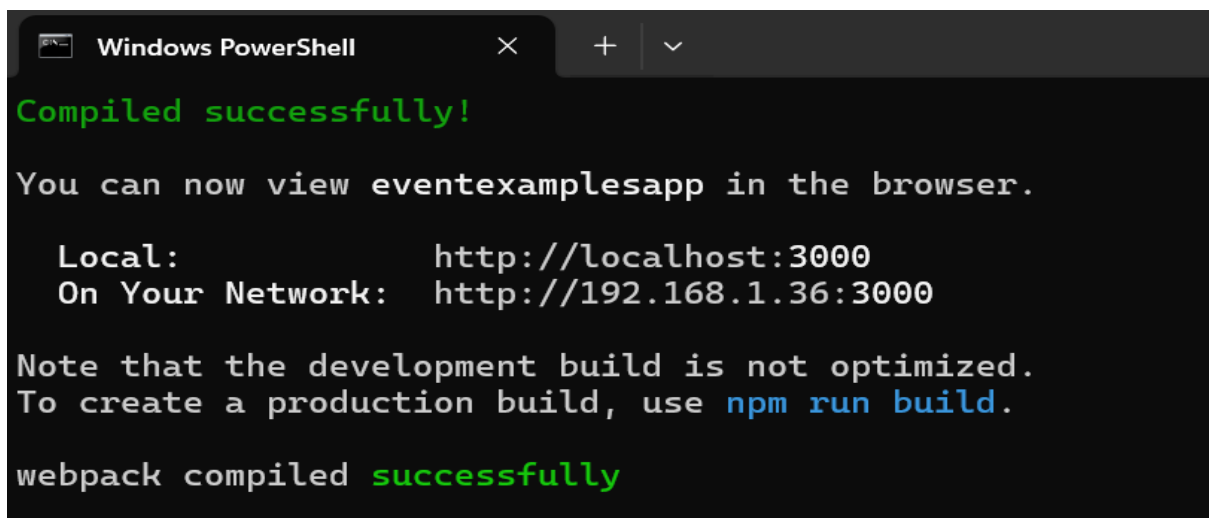
button {
  margin: 10px;
  padding: 8px 16px;
  font-size: 16px;
}
.App-logo {
  height: 40vmin;
  pointer-events: none;
}

@media (prefers-reduced-motion: no-preference) {
  .App-logo {
    animation: App-logo-spin infinite 20s linear;
  }
}

.App-header {
  background-color: #282c34;
  min-height: 100vh;
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: center;
  font-size: calc(10px + 2vmin);
  color: white;
}
.App-link {
  color: #61dafb;
}
@keyframes App-logo-spin {
  from {
    transform: rotate(0deg);
  }
  to {
    transform: rotate(360deg);
  }
}

```

OUTPUT:



```

Windows PowerShell
Compiled successfully!

You can now view eventexamplesapp in the browser.

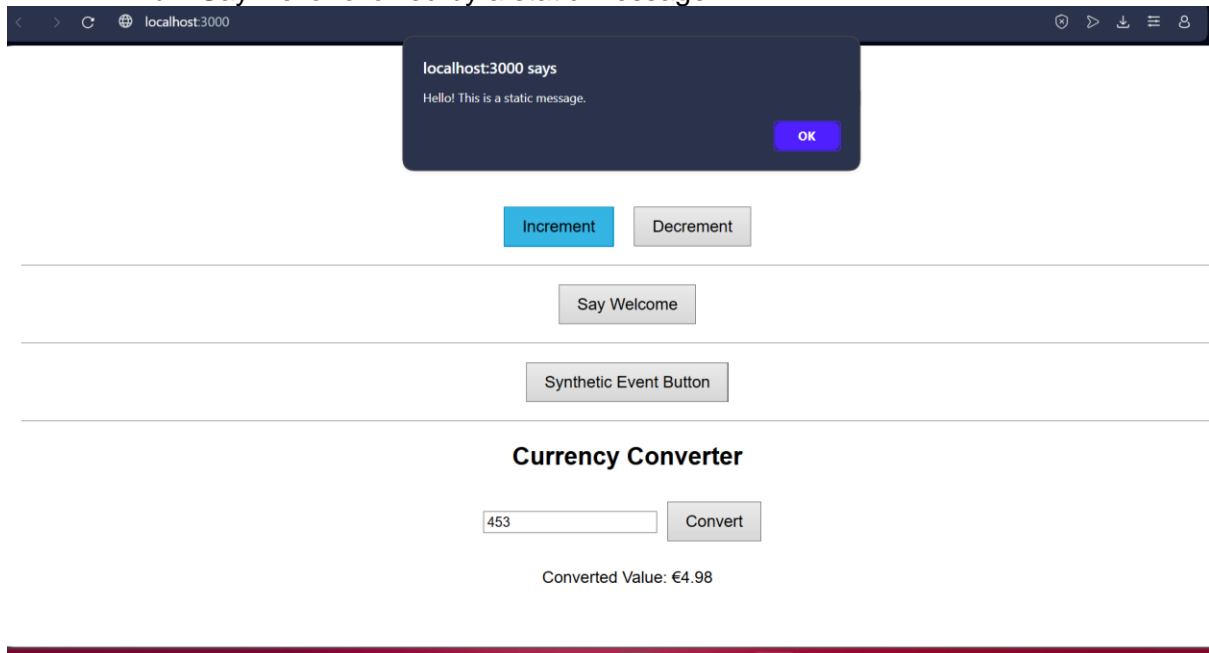
Local:      http://localhost:3000
On Your Network:  http://192.168.1.36:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

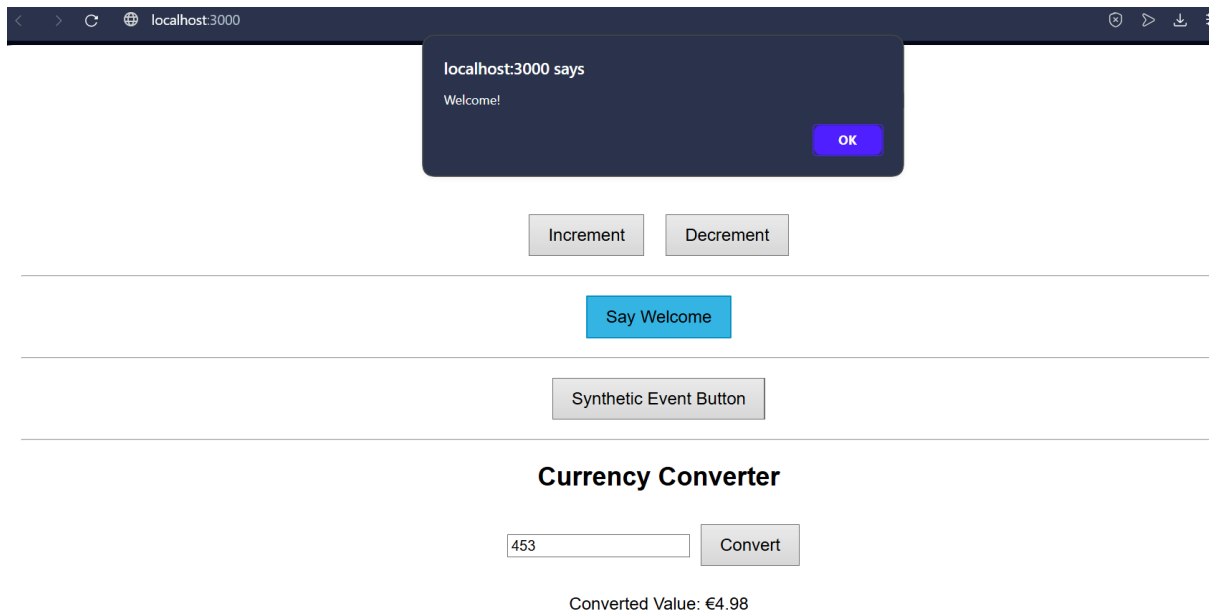
webpack compiled successfully

```

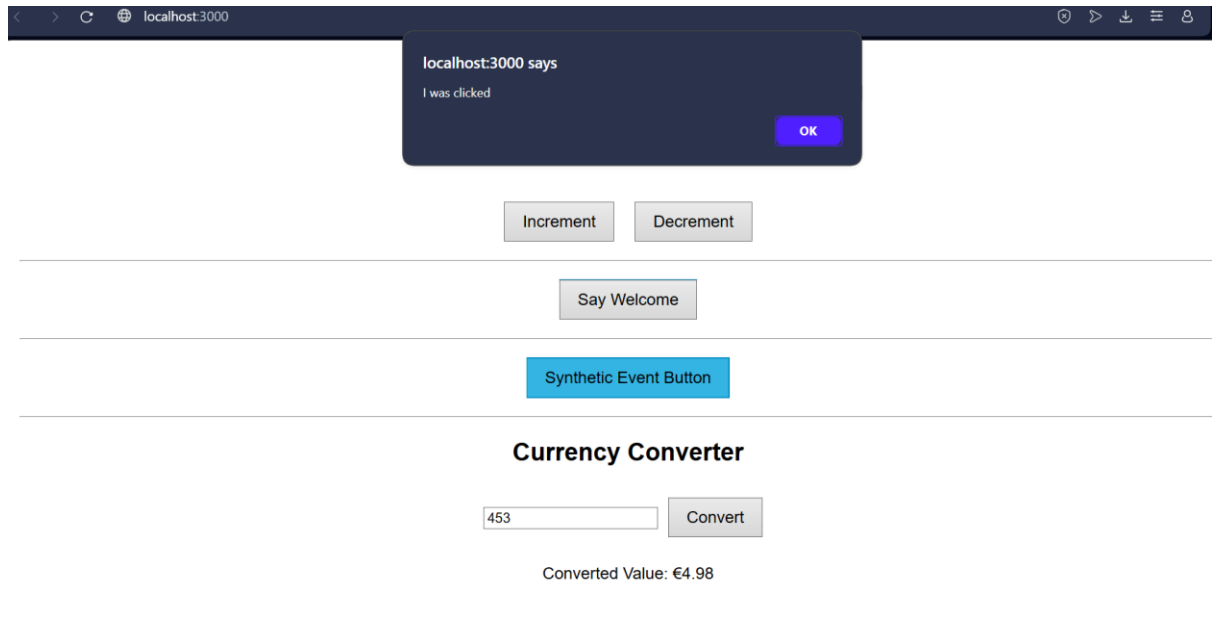
1. Create “Increment” button to increase the value of the counter and “Decrement” button to decrease the value of the counter. The “Increase” button should invoke multiple methods.
 - a. To increment the value
 - b. Say Hello followed by a static message.



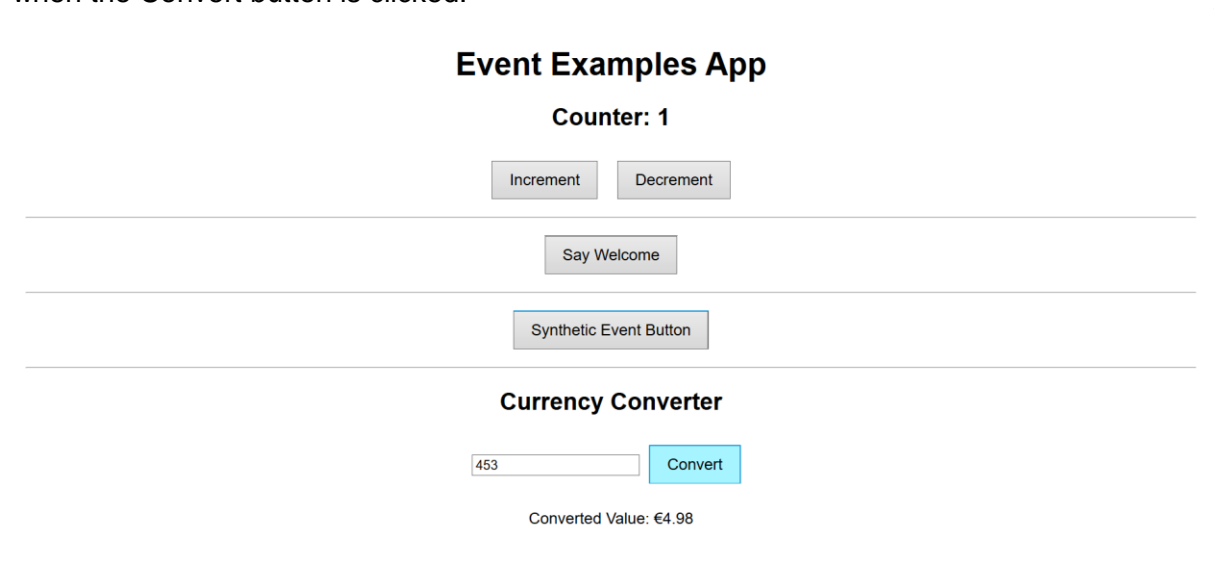
2. Create a button “Say Welcome” which invokes the function which takes “welcome” as an argument.



3. Create a button which invokes synthetic event “OnPress” which display “I was clicked”



4. Create a “CurrencyConvertor” component which will convert the Indian Rupees to Euro when the Convert button is clicked.



12.REACTJS-HOL

Create a React Application named “ticketbookingapp” where the guest user can browse the page where the flight details are displayed whereas the logged in user only can book tickets.

Components> GuestPage.js

```
// src/components/GuestPage.js
import React from 'react';

const GuestPage = () => {
  return (
    <div>
      <h2>Welcome Guest!</h2>
      <p>Here are the available flights:</p>
      <ul>
        <li>Flight 1: Delhi ✈️👉 Mumbai</li>
        <li>Flight 2: Bangalore :Hyderabad</li>
        <li>Flight 3: Chennai ✈️👉 Kolkata</li>
      </ul>
      <p><strong>Please login to book tickets.</strong></p>
    </div>
  );
};

export default GuestPage;
```

Components> UserPage.js

```
// src/components/UserPage.js
import React from 'react';

const UserPage = () => {
  return (
    <div>
      <h2>Welcome Back, User!</h2>
      <p>Select your flight and book tickets:</p>
      <ul>
        <li>Flight 1: Delhi ✈️👉 Mumbai <button>Book</button></li>
        <li>Flight 2: Bangalore ✈️👉 Hyderabad <button>Book</button></li>
      </ul>
    </div>
  );
};
```



```
    <li>Flight 3: Chennai ✈️ 📦 Kolkata <button>Book</button></li>
  </ul>
</div>

);
};

export default UserPage;
```

Components> LoginButton.js

```
// src/components/LoginButton.js
import React from 'react';

const LoginButton = ({ onLogin }) => {
  return <button onClick={onLogin}>Login</button>;
};

export default LoginButton;
```

Components> LogoutButton.js

```
// src/components/LogoutButton.js
import React from 'react';

const LogoutButton = ({ onLogout }) => {
  return <button onClick={onLogout}>Logout</button>;
};

export default LogoutButton;
```

App.js

```
// src/App.js
import React, { useState } from 'react';
import './App.css';
import GuestPage from './components/GuestPage';
import UserPage from './components/UserPage';
import LoginButton from './components/LoginButton';
import LogoutButton from './components/LogoutButton';
```

```

function App() {
  const [isLoggedIn, setIsLoggedIn] = useState(false);

  const handleLogin = () => {
    setIsLoggedIn(true);
  };
  const handleLogout = () => {
    setIsLoggedIn(false);
  };
  return (
    <div className="App">
      <h1>➔ 🎫 Ticket Booking App</h1>

      {isLoggedIn ? (
        <>
          <LogoutButton onLogout={handleLogout} />
          <UserPage />
        </>
      ) : (
        <>
          <LoginButton onLogin={handleLogin} />
          <GuestPage />
        </>
      )}
    </div>
  );
}
export default App;

```

App.css

```

.App {

```

```
text-align: center;

font-family: sans-serif;

padding: 20px;
}

button {

padding: 6px 12px;

margin: 8px;

font-size: 16px;
}
```

OUTPUT:

```
Compiled successfully!

You can now view ticketbookingapp in the browser.

Local:      http://localhost:3000
On Your Network:  http://192.168.1.36:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```

Ticket Booking App

Login

Welcome Guest!

Here are the available flights:

- Flight 1: Delhi  Mumbai
- Flight 2: Bangalore  Hyderabad
- Flight 3: Chennai  Kolkata

Please login to book tickets.

Ticket Booking App

Logout


Welcome Back, User!

Select your flight and book tickets:


-
-
-

Flight 1: Delhi  Mumbai

Book

Flight 2: Bangalore  Hyderabad

Book

Flight 3: Chennai  Kolkata


Book

13.REACTJS-HOL


Create a React App named “bloggerapp” in with 3 components.

1. Book Details
2. Blog Details
3. Course Details


Components>BookDetails.js

```
const BookDetails = () => {  
  return <h2> Book Details Component</h2>;  
};  
export default BookDetails;
```

Components>BlogDetails.js

```
const BlogDetails = () => {  
  return <h2> Blog Details Component</h2>;  
};  
export default BlogDetails;
```

Components>CourseDetails.js

```
const CourseDetails = () => {  
  return <h2> Course Details Component</h2>;  
};  
export default CourseDetails;
```

App.js

```
import React, { useState } from "react";
import BookDetails from "../Components/BookDetails";
import BlogDetails from "../Components/BlogDetails";
import CourseDetails from "../Components/CourseDetails";

function App() {
  const [currentView, setCurrentView] = useState("book");

  const renderComponent = () => {
    // Using if-else
    if (currentView === "book") {
      return <BookDetails />;
    } else if (currentView === "blog") {
      return <BlogDetails />;
    } else if (currentView === "course") {
      return <CourseDetails />;
    } else {
      return <h2>Select a valid view.</h2>;
    }
  };

  return (
    <div className="App">
      <h1>☑ Blogger Dashboard</h1>

      { /* Buttons to toggle */ }
      <button onClick={() => setCurrentView("book")}>Show Book</button>
      <button onClick={() => setCurrentView("blog")}>Show Blog</button>
      <button onClick={() => setCurrentView("course")}>Show Course</button>

      <hr />
    </div>
  );
}
```

```

    {/* 1. Using function for conditional rendering */}
    {renderComponent()}

    {/* 2. Ternary operator example */}

    <div>

        <h3>Status (Ternary):</h3>

        {currentView === "book" ? <p>Book View Selected</p> : <p>Not in Book View</p>}

    </div>

    {/* 3. Logical && operator */}

    {currentView === "blog" && <p>You're reading blog posts!</p>}

    {/* 4. Switch rendering */}

    <div>

        <h3>Switch style rendering:</h3>

        {{
            book: <p>Book view via object literal</p>,
            blog: <p>Blog view via object literal</p>,
            course: <p>Course view via object literal</p>,
        }}[currentView]}

    </div>

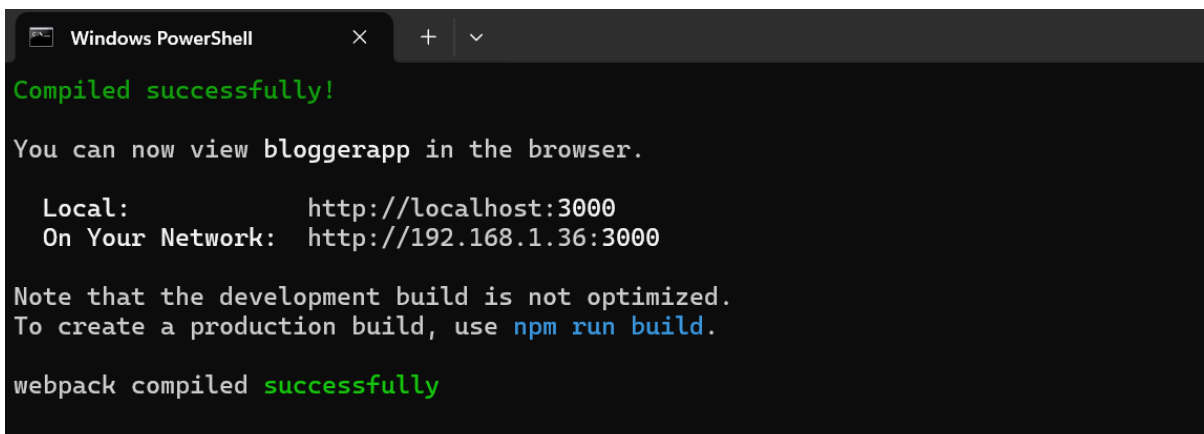
</div>

);
}

export default App;

```

OUTPUT:



```

Windows PowerShell
Compiled successfully!

You can now view bloggerapp in the browser.

Local:      http://localhost:3000
On Your Network:  http://192.168.1.36:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully

```

